

13
Daniel.

1652.
An Almanack for
the year of Christ,

1653.
Being the *Bissextile* or leap-year.
Also an Astrologicall conjecture
of the weather, after a molt ex-
quisite new method.

Written by

HUMPHRY DANIEL
Student in the Mathematiques for
the meridian of *London*, Metropo-
lis of great *Britain*.

*Post dixit Deus, sum'o luminaria in expanso cœli,
ad distinctionem faciendam inter diem & no-
ctem, ut fiat in signa tum tempestatibus, tum die-
bus, & annis.*

Nihil humanum quod non subiectum sit errori.

LONDON.
Printed by J.M. for the Company
of Stationers, 1652.



This year being Leap-year,
the

Cycle of the Sun
Roman Indiction

20. omnia a iter

Epact

Epact

} is {

9.
5.
19.
29.

Tacito pede pra-

terit atas

Mature resi.

pisce precor.

A perfect rule to know when the Terms
begin and end.

Hilary terme begins January 23. ends February the 11
and hath 4 returns.

Easter terme begins Aprill the 16. ends Monday next after
the Ascention day, and hath 5 returns.

Trinity terme begins the Friday after Trinity Sunday, and
ends the Wednesday fortnight after, and hath four re-
turns.

Michaelmas terme begins October the 23, ends November the
28. and hath 6 returns.

Shrove Sunday the 29. February.

Easter day the 18. April.

Whitsunday the 6. June.

A compendious Chronology of events
Memorable contingences, shewing
how long it is since any of
them happened.

Since	The Creation of the world.	3661
	The Deluge.	4905
	Abahams birth.	3652
	Beginning of King Davids reign.	2711
	Beginning of 70. years captivity.	2160
	Nebuchadnezzar took Jerusalem.	2241
	England received the Christian faith.	1472
	The first generall Council.	1326
	The first Mayor of London.	461
	The invention of Guns.	271
	The invention of Printing.	211
	Luther wrote against the Pope.	135
	King Henry conquered Bullain.	107
	Coaches first used in England.	96
	The Royall Exchange in London built.	86
	The massacre of the Protestants in France.	79
	Tilbury Camp.	63
	The Gunpowder Treason, Novemb. 5.	46
	The great Frost.	44
	The last blazing Star.	33
	Parliament began Novemb. 3.	12
	The Irish Rebellion, Octob. 23.	11
	The Kings Standard set up August 22.	10

Floreat Respublica Anglicana.

Ad Amicum suum Amorem.

Consule grandiloquum solerti mente Marthesin,
 Pluvia, ventus, Hyems unde sit, arte doce.
 Quod facit Arcturus, Plader, quod gignit Orion,
 Quodq; dat alternâ, quæq; planeta vice.
 Gratum opus Agricolis: sit sic sine nube, serenum
 Angligenum, semper nomen in ore tuum.

of are moderated by the twelve Cœlestiall
 Signes, according to the opinion of the
 Ancient Astrologers.

∨ The head and face,

♊
 Neck and
 throat.
 ♋
 Breast, sto-
 mach & ribs.
 ♌
 Bowels and
 belly.
 ♍
 Secrets and
 members.
 ♎
 Knees.



♊
 Arms and
 shoulders.
 ♋
 Heart and
 back.
 ♌
 Reins and
 loins.
 ♍
 Thighs.
 ♎
 Legs.

♐ Pisces the feet.

Causa Deus prima est, causa sunt astra secunda.

First quarter the 7 day, 43 min. past 8 night.
 Full moon the 15 day, 10 min. past 3 afternoon.
 Last quarter the 23 day, 18 min. past 7 night.
 New moon the 30 day, 38 min. past 2 afternoon.

1	g		capric.	
2	a		aquar.	A cold ayre for many
3	b		aquar.	dayes inclining to frost,
4			pisces	snow, and Northeast
5	d	Simen	pisces	windes.
6	e		aries	
7	f	Felix	aries	
8	g	Lucian	taurus	Moist windes the 9 and
9	a	Agape Virg	taurus	10 dayes.
10	b	Paul Crem.	gem.	
11			gem.	
12	d	Bracade mar.	gem.	Vnconstant weather
13	e	Hilary bish.	cancer	follows still.
14	f		cancer	
15	g		leo	Frost or snow about be-
16	a	Marcellus	leo	ginning of the Full.
17	b	Barthony	leo	
18			virgo	
19	d		virgo	And expect Frost a-
20	e	Sebastian	libra	bout the 19 or 20 daies,
21	f	Agnes	libra	or raw cold.
22	g	Vincent	libra	
23	a		scorpio	
24	b	Timothy	scorpio	
25		Convers. Paul	sagit.	In generall the whole
26	d	Holycarp	sagit.	moneth proves very
27	e	Julian	capric.	winterly and uncomfor-
28	f		capric.	table, as cloudy, cold,
29	g	Theodoze	aquar.	variable windes, and it
30	a	Basil	aquar.	ends with wet.
31	b		pisces	

February hath 28. dayes.

First quarter the 6 day, 15 min. past 9 morning.
Full moon the 14 day, 3 min. past 10 morning.
Last quarter the 22 day, 9 min. past 9 morning.
New moon the 29 day, 1 min before one in the morning

1	D		pisces	The first day inclines
2	E	Perseus of May	aries	to showres from the
3	F		aries	West, the 2 and 3 not
4	G		taurus	much differing.
5	A	Agathe	taurus	More unconst. and wet
6	B	Dorothea	taurus	weather follows, with
7	C		gemini	windes.
8	D		gemini	Some clear-aways about
9	E	Apollo	cancer	the 9 day, yet overcast,
10	F	Scholastica	cancer	for rain before the 11
11	G		leo	day.
12	A	Three ends	leo	
13	B		leo	Windy the 13 day.
14	C	Valentine	virgo	Fair between whiles
15	D		virgo	the 14 day.
16	E		virgo	About the 15 and 16
17	F	Pollicron	libra	dayes overcast for more
18	G		libra	rain.
19	A		scorpio	Uncertain weather 17,
20	B	Wildrid	scorpio	18, 19, and 20 dayes
21	C	Irish Part.	sagit.	with raw cold.
22	D		sagit.	This moneth in gene-
23	E		sagit.	rall tends to a very un-
24	F	S. Michael	capric.	certain state of ayre, as
25	G		capric.	sudden showres and fair
26	A	Neslor	aquar.	weather, sometimes in-
27	B	Augustine	aquar.	termixt. About the 26
28	C	Olwald	pisces	or 27 dayes very bla-
29	D	Shrove last.	pisces	string
			Moons	Wet weather ends the
			place.	moneth

First a
Full
Last q
New

1 D
2 E
3 F
4 G
5 A
6 B
7 C
8 D
9 E
10 F
11 G
12 A
13 B
14 C
15 D
16 E
17 F
18 G
19 A
20 B
21 C
22 D
23 E
24 F
25 G
26 A
27 B
28 C
29 D
30 E
31 F

First quarter the 6 day, 52 minutes past 11 night.
 Full moon the 15 day, 58 minutes past 3 morning.
 Last quarter the 22 day, 56 minutes past 6 night.
 New moon the 29 day, 21 minutes past 10 morning.

1	d	David	aries	Indifferent good wea-
2	e	Shrove Tuesd.	aries	ther the first day, the
3	f	Whitwednesday	taurus	second rain.
4	g	Monday	taurus	The third better.
5	a	Eusebius	gemin.	The 4 rain-like.
6	b		gemin.	The beginning of this
7	c	1. Sund. in lent	cancer	quarter the West wind
8	d		cancer	provokes cloudes and
9	e	St. Mart.	cancer	overcasts, the coming
10	f	Agapite	leo	rain, a clear night the
11	g		leo	8 day, a dull moist ayre
12	a	Gregory	virgo	9 day, 10 day better
13	b	Euphasia	virgo	weather, 11 more clew-
14	c	2. Sund. in lent	virgo	dy, then inclining to
15	d		libra	rain or thunder.
16	e	Cyprian	libra	The full moon brings
17	f	Patrick	scorpio	blustering weather.
18	g		scorpio	
19	a	Joseph	scorpio	
20	b	Euthbert	sagit.	
21	c	3 Sund. in lent	sagit.	Good spring weather
22	d		capric.	this quarter, though
23	e		capric.	something moist the 23
24	f		aquar.	day.
25	g	Aunan. of Fe.	aquar.	
26	a	Castor & mar.	pisces	Some rain the 26 day.
27	b		pisces	
28	c	4. Sund. in lent	aries	
29	d	Eustach.	aries	The month ends with
30	e		taurus	showres.
31	f	Adelme	taurus	

First quarter the 5 day, 4 minutes past 4 at night.
 Full moon the 13 day, 32 minutes past 7 night.
 Last quarter the 21 day, 50 minutes past 1 morning.
 New moon the 27 day, at 8 night.

1	g		gemin.	The first day Sinamon
2	a	Perry Corpe	gemin.	coloured clouds appear.
3	b	Richard Bish	gem.n.	
4	c	5. iurd. in lent	cancer	The fourth day moist
5	d	Marcian	cancer	wind.
6	a		leo	This quarter proves
7	f	Egeſippus	leo	moist and cloudy a-
8	g	Scorpius	leo	bout the beginning
9	a	Passion of 7 bt.	virgo	thereof.
10	b	Water. a. Bish	virgo	
11	c		lib-a	
12	d		lib-a	
13	e	Justin	libra	The full moon brings
14	f	Dise	scorpio	moist weather & winds.
15	g	Leonard	scorpio	
16	a		sagit.	
17	b	Adoze Bish.	sagit.	
18	c		capric.	
19	d	Aphe Bish.	capric.	A raw cold moist ayre
20	e	Victor mart.	aquari.	the beginning of this
21	f	Simon Bish.	aquari.	quarter.
22	g		pisces	
23	a	George mart.	pisces	A clear night the 22.
24	b		pisces	and like to freeze.
25	c	Mark Evang. &	aries	
26	d	Lowfun day	aries	
27	e	Anastadius	taurus	Some rain about the
28	f	Uitalis	taurus	new moon, high wind
29	g		gemin.	follow.
30	a	Cik nwald	gemin.	Month ends: with
				flowers.

First c
 Full
 Last q
 New

1 b
 2 d
 3 e
 4 f
 5 g
 6 a
 7 b
 8 c
 9 d
 10 e
 11 f
 12 g
 13 a
 14 b
 15 c
 16 d
 17 e
 18 f
 19 g
 20 a
 21 b
 22 c
 23 f
 24 g
 25 a
 26 b
 27 c
 28 a
 29 b
 30 c
 31 d

First quarter the 5 day, 33 minutes past 9 morning.

Full moon the 13 day, 14 minutes past 8 morning.

Last quarter the 20 day, 2 minutes past 7 morning.

New moon the 27 day, 11 minutes past 7 morning.

1	b		cancer	The first inclining to
2	a	2 Sund. aft. East.	cancer	showres, with fair wea-
3	d	Invent. of crosse	leo	ther between.
4	e	Flozianus	leo	
5	f	Gobard	leo	It rains about the en-
6	g		virgo	trance of this quarter
7	a	John of Beberly	virgo	Raw cold the 8. 9. and
8	b	Stantflans	libra	10. dayes.
9	c	3 Sund. aft. East.	libra	
10	d		libra	
11	e	Hamertus	scorpio	
12	f	Pancratius	scorpio	The begin. of this full,
13	g	Pontface m.	sagit.	the West wind blowes
14	a	Andoze mart.	sagit.	and brings reddish
15	b	Brandon	capric.	clouds 14. 15. and 16.
16	c	4. Sund. aft. East.	capric.	dayes fair for most
17	d	Diascoy. mar.	capric.	part.
18	e		aquari.	
19	f	Bernardine	aquari.	
20	g	Elen Dusen	pisces	West or Northwest
21	a	Jultan birgin	pisces	windes about the 20
22	b		aries	day, and the 21.
23	c	5. Sund. aft. East.	aries	
24	d	Helme Bish.	taurus	
25	e	Abanas	taurus	Moist the 25 day.
26	f	Beda	gemini.	
27	g		gemini.	West windes about the
28	a	Cozenis	cancer	new moon, or thunder.
29	b		cancer	
30	c	6 Sund. aft. East.	cancer	Like to rain the last
31	d		leo	day.

First quarter the 4 day, 23 minutes past 3 morning.
Full moon the 11 day, 19 minutes past 6 night.
Last quarter the 18 day, 17 minutes past noon.
New moon the 25 day, 49 minutes past 5 after noon.

1	c		leo	West wind, and fair,
2	f	Marcelline	virgo	first day.
3	g	Crispianus	virgo	More cold West winds
4	a		virgo	the 3 or 4 dayes, with
5	b		libra	probability of thunder.
6	c	The Lady	libra	
7	d		scorpio	
8	e	William confess.	scorpio	
9	f		scorpio	
10	g	Onophrius	sagit.	Moist winds about the
11	a	Barnabas	sagit.	entrance of the full, the
12	b		capri.	12 fair, and cool wea-
13	c	Trinity Sunday	capri.	ther follows.
14	d	Valerius	aquar.	
15	e	Titus	aquar.	
16	f	Relandus	pisces	
17	g	Bortolph	pisces	
18	a	John Baptist	aries	The 18 day fair.
19	b	Gerbertus	aries	The 19 and 20 more
20	c		taurus	doubtfull, chiefly the
21	d		taurus	20.
22	e	St. mart.	gemini	
23	f		gemini	
24	g	John Baptist	gemini	
25	a		cancer	An uncertain state of
26	b		cancer	weather about the new.
27	c	Crescent	leo	Like to thunder ere the
28	d		leo	27 day passe.
29	e	John Baptist	leo	
30	f		virgo	Last day uncertain.

First quarter the 3 day, 26 minutes past 8 night.
 Full moon the 11 day, 45 minutes past 2 morning.
 Last quarter the 17 day, 19 minutes past 6 after noon.
 New moon the 25 day, 18 minutes past 7 morning.

1	g	vergo	Something cloudy the
2	a	libra	first.
3	b	libra	
4	c	libra	Uncertain moist and
5	d	scorpio	something windy about
6	e	scorpio	the beginning of this
7	f	sagitt.	quarter.
8	g	sagitt.	More winds the 7 and
9	a	capr.	9 day.
10	b	capr.	Dark overcast for rain
11	c	aquar.	or thunder about be
12	d	aquar.	ginning of the full.
13	e	pisces	
14	f	pisces	More rain and thunder
15	g	aries	about 14, 15, and 16
16	a	aries	dayes, more thunder
17	b	taurus	this quarter.
18	c	taurus	
19	d	taurus	
20	e	gemini	
21	f	gemini	
22	g	cancer	
23	a	cancer	Rain-like the 23.
24	b	leo	Thunder the 24.
25	c	leo	
26	d	leo	Hot fair weather this
27	e	virgo	new moon.
28	f	virgo	
29	g	libra	
30	a	libra	Fair wind ends the
31	b	libra	moneth.

First quarter the 2 day, 45 minutes past 11 morning.
 Full moon the 9 day, 34 minutes past 10 morning.
 Last quarter the 16 day, 25 minutes past 10 morning.
 New moon the 23 day, 55 minutes past 10 night.

1	a	Lammes	scorpi	First day fair.
2	d		scorpi	This quarter tends
3	e		sagit.	most clear weather, al-
4	f	Tridarch.	sagit.	though some overcasts
5	g	Edward	sagit.	about the beginning
6	a	Edmund	capric.	thereof.
7	b		capric.	
8	c		aquar.	
9	d		aquar.	Thunder and some sud-
10	e	Laurence	pisces	den dashes of rain are
11	f	Edmundus	pisces	portended this full,
12	g	Clare	aries	
13	a	Hippolit.	aries	
14	b	Eufidius	taurus	The beginning of this
15	c		taurus	quarter strange col-
16	d		gemin.	clouds appear, as if
17	e		gemin.	thunder.
18	f	Helen	cancer	
19	g	Wagnus	cancer	
20	a	Lewes	cancer	
21	b	Harard	leo	Although cloudes ap-
22	c		leo	pear, and winds rise
23	d	Jachops	virgo	high this new moon, yet
24	e		virgo	most part fair,
25	f	Lodowick	virgo	
26	g		libra	
27	a		libra	
28	b	Duguidin	scorpio	
29	c		scorpio	
30	d		scorpio	Flying cloudes yet
31	e		sagit.	scarce rain the last day.

First quarter the 1 day, 17 minutes before one morning.
 Full moon the 7 day, 54 minutes past 4 after noon.
 Last quarter the 14 day, 28 minutes past 1 after noon.
 New moon the 22 day, 3 minutes past 4 after noon.
 First quarter the 30 day, 57 minutes past 1 morning.

1	f		sagit.	The first day some
2	g	Meronica	capric.	thing doubtfull; the
3	a		capric.	second fair.
4	b	Theodos.	aquar.	
5	g	Bertin.	aquar.	
6	d		pisces	
7	e	Gorgon	pisces	Rain the seventh day.
8	i		aries	the eighth fair.
9	g	Silbins	aries	
10	a		taurus	Fair the tenth.
11	b	Martian	taurus	
12	c		gemin.	Some cloudes the 12.
13	d		gemin.	yet fair.
14	e		cancer	Sharp, frosty, fair wea-
15	f	Nicodemus	cancer	ther most of this quar-
16	g	Edeth	cancer	ter.
17	a	Lambert	leo	
18	b	Altoz	leo	
19	c		virgo	
20	d	Eutaz	virgo	More cold frosty wea-
21	e	Altoz	virgo	ther this new moon.
22	f		libra	
23	g		libra	
24	a	Samuel	scorpio	
25	b		scorpio	
26	c		scorpio	
27	d	Cosme	sagit.	
28	e		sagit.	
29	f		capric.	Fair and frosty weather
30	g	Jerome	capric.	ends the moneth.

Full moon the 7 day, 39 minutes past 3 morning.
 Last quarter 14 day, 33 minutes past 4 morning.
 New moon 22 day, 42 minutes past 9 morning.
 First quarter the 30 day, 28 minutes past 2 morning.

1	a		aquari.	Cold 1, 2, and 3 days.
2	b	Leodegar.	aquar.	
3	c		aquar.	
4	d	Francis	pisces	
5	e	Faith	pisces	
6	f		aries	High winds about the
7	g		aries	beginning of the full
8	a		taurus	moon, uncertain wea-
9	b	Dionysus	taurus	ther follows.
10	c		gemin.	
11	d		gemin.	
12	e	Calixt	cancer	
13	f	Molhan	cancer	
14	g		leo	A cold ayre the begin-
15	a	Judy	leo	ning of this quarter,
16	b		leo	and great overcast
17	c		virgo	follow.
18	d	Luke Evng.	virgo	
19	e	Protomp	libra	Frost 19 day at night.
20	f	Wifwode	libra	
21	g	Ursula	libra	The new moon brings
22	a		scorpio	cold weather, and white
23	b	Trent begins	scorpio	frost ere it passe.
24	c		sagit.	
25	d	Crisp'ne	sagit.	
26	e		capric.	
27	f		capric.	Raw cold the begin-
28	g	Nixon and Jude	capric.	ning of this quarter.
29	a	Marcellas	aquar.	
30	b		aquar.	And a clear star-light
31	c	Quintine	pisces	night ends the month.

November hath xxx. dayes.

Full moon the 5 day, 15 minutes past 2 after noon.
 Last quarter the 12 day, 49 minutes past 11 night.
 New moon the 21 day, 19 minutes past 2 morning.
 First quarter the 28 day, 14 minutes past 6 morning.

1	d	All Saints	pisces	A misty thick ayre, of
2	e	All Soules	aries	rain the first day.
3	f	Wenceslaid	aries	
4	g		taurus	A dull misty ayre most
5	a	Rowland	taurus	of this full moon.
6	b	Leonard	gemini	
7	c		gemini	
8	d		cancer	
9	e	Theodoze	cancer	
10	f	Martin	leo	
11	g		leo	
12	a		leo	Raw cold this quarter.
13	b	Wyce	virgo	
14	c		virgo	
15	d	Leopoldus	libra	
16	e		libra	
17	f		libra	
18	g	Gelasius	scorpio	Great overcast 17. day.
19	a	Elizabeth	scorpio	
20	b	Edmund King	sagit.	A cold Northeast wind
21	c		sagit	blowes this New moon
22	d	Cicely	sagit.	which brings much
23	e	Clement	capric.	frost with it.
24	f		capric.	
25	g	Katherine	aquar.	
26	a	Lin	aquar.	Moist North winds be-
27	b		pisces	ginning of this quar-
28	c	Thomas	pisces	ter.
29	d		aries	Winds very high the
30	e	Andrew Apostl	aries	last day.

December hath 31. dayes.

Full moon the 5 day, 48 minutes past 2 morning.
 Last quarter the 12 day, 33 minutes past 9 night.
 New moon the 20 day, 17 minutes past 5 night.
 First quarter the 27 day, 42 minutes past 2 after noon.

1	f		taurus	First day overcast.
2	g	Candidus	taurus	
3	a		gemin.	
4	b	Barbara	gemin.	The full moon begins
5	c		gemin.	with windy dark wea-
6	d	Nicholas	cancer	ther.
7	e		cancer	Overcast for rain the
8	f		leo	6 day.
9	g	Joachimus	leo	Rain-like the 8 day.
10	a	Eulalia	virgo	
11	b		virgo	
12	c		virgo	
13	d		libra	Cloudy cold weather,
14	e		libra	the wind East or
15	f		scorpio	North-East this quar-
16	g		scorpio	ter.
17	a	Lazarus	scorpio	
18	b	Christoph.	sagit.	
19	c		sagit.	
20	d		capric.	More cold North-east
21	e	Thomas Apol.	capric.	and East windes at the
22	f		aquar.	new moons entrance,
23	g		aquar.	with frost.
24	a		pisces	Like to snow or rain
25	b	War of S. John	pisces	about the 23 or 24
26	c	Stephen	aries	dayes.
27	d	John a Baptist	aries	Fair frosty weather
28	e	Innocents day	aries	this quarter.
29	f	Thomas Bec.	taurus	
30	g		taurus	Yet a troubled ayre the
31	a	Silvester	gemin.	last day.

Daniell. 1652.

Here followeth the 2^d. Part of
this Almanack; treating first,
of the foure Quarters of the yeare,
and Eclipses, as they respect
our Horizon.

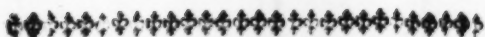
Secondly, of such things as are con-
ducible to the health of Mans body; as
fit times for Purging, Blood-letting, &c.

Likewise, convenient and profitable
rules for Husbandmen, and all such as
are conversant about the Fruits of the
earth.

Lastly, a briefe *Analysis* of certaine
Arithmetickall Questions fit for Milita-
ry-men, Tradetimen, Surveighers, Buil-
ders, and others; with severall necessary
Tables calculated to that purpose.

LONDON.

Printed by T. Fawcet, for the Company of
Stationers. 1652.



— *Nil non mortale tenemus*
Pectoris exceptis ingenii, bonis.

To find the time of Full sea at *London-bridge*,
find the Age of the Moone, and underneath is
the time of full water.

The Age of the Moone increasing

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

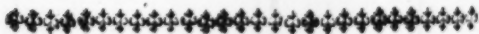
Decreasing

16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.

Full Sea.

Ho. 3, 4, 5, 6, 7, 7, 8, 9, 10, 11, 11, 12, 1, 2, 3.

M. 48, 36, 24, 12, 0, 48, 36, 24, 12, 0, 48, 36, 24, 12, 0



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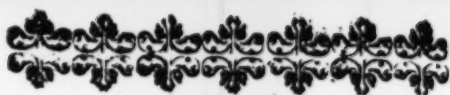
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4	1 15 00	91	05	
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A Table of
good husbandry,
by which a man
may know how
hee parts from
his meanes, and
how to thrive at
the yeares end,
in which his lay-
ings out, or
spendings by the
day, weeke, and
yeare are mea-
sured.

A yeare of 364 dayes 52 weeks.

11	7	364
2	14	728
4	28	1456
5	35	1820
10	70	3640
20	140	7280
30	210	10920
40	280	14560
50	350	18210
100	700	36400
500	3500	182000
1000	7000	364000

By this, a Gene-
rall may know
how to maintain
an Army, a Mer-
chant to dis-
charge Sea-busi-
nesse, and a No-
ble man to mea-
sure his layings
out or expences
to profit.



A Description of the Foure Quarters, of the yeare, and first of the Spring.

WHich taketh his beginning, when the Sunne entreth the first minute of the Equinoctiall signe *Aries* at which time the daies and nights are equall. This quarter is *Aeriall*, sanguine, hot and moist, and of all other the most wholesome, which according to the judgment of the best moderne Writers by Astronomicall reduction, will begin with us this yeare under this Meridian, on the ninth day of March, at 44 minutes past 7 in the night, the ninth degree of *Scorpio* the night house and joy of *Mars* then ascending, and the Moone separating her selfe from the quartile of *Venus*, to a trine of the Sun, the portent of these and other following configurations I shall not discusse, it being a worke more meet for the pens of the two bright Luminaries of our times, Mr. *John Booker*, and Mr. *William Lilly*.

The

Daniell. 1651.

SUMMER QUARTER.

THe next is the Summer quarter, hot and dry, fiery, cholericke, and taketh his beginning with us this yeare, on the Tenth day of *June*, at 32 minutes past 10 of the clock at night, the 13th degree of *Aquarius* then rising, the day house and joy of *Saturne*, at which time the Moone defluxeth from *Venus* trine, to the opposition of furious *Mars*.

AUTUMNE.

THe Autumnall quarter begins with us this yeare the 12 day of *September*, at 38 minutes past 1 in the afternoone, the 22 degree of *Sagittary* then rising, and the Moone applying to a trine of *Saturne*, having lately separated her selfe from a quartile of *Mars*, and trine of the Sun; this quarter is naturally cold and dry, and of humors it representes *Melancholy*.

Winter.

THe last quarter is the Winter quarter, which is of nature flegmaticque, cold and moist.

A Prognostication.

moist, and begins this yeare with us on the eleventh day of December at 21 minutes past 2 in the morning, the 14th. degree of *Libra* being then horoscopically and the Moone passing from a trine of the Sun, to a Sextile aspect of *Venus*.

Of the Eclipses this yeare.

THERE happeneth this yeare in all 4 Eclipses two of the Sun, and two of the Moone the first of the Sun, which will happen on the 20th. day of *March*, and both the Eclipses of the Moone will be conspicuous to us, and appeare very for-midable in many parts of Europe, but the latter Eclipse of the Sun will fall without our hemisphere and be best discerned of those which inhabite the Southern parts of *America* and of such as sayle through the streights of *Magellain*, and the adjacent seas thereabout.

Now touching the Aspects of the Planets.

An aspect according *Keplero est angulus a radiis luminosis binarum planetarum inter se formatus, efficax ad simulandam naturam sub-lunarem.*

Amongst

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Amongst aspects some are more forcible then others ; wherefore ancient Astralogers have acknowledged onely these, to wit. the Conjunction, Opposition, quartile, trine and sextile, to which may be added the *Anisfeia* of the Planets; because when they are in signes benedicting one another, and equally distant from the tropics they are of force, yet the Conjunction is not properly be termed an aspect : but latter Mathematicians for Physicall reasons, have added these following ; as the Semisextile, Octile, Decile, Tridecile, Quindecile, Vigecile, Quintile, Quincunx, Trioctile, Biquintile, and others which from these may Mathematically be deduced, being all of excellent use in Criticall observations.

Concerning the nature of the Planets

Saturne, the upper most of the rest, is of nature Immoderately cold and dry, cold by reason of his immense distance from the Sun, dry by reason of his great and vast distance from the vapors of the earth.

Jupiter, in order next to *Saturne*, is moderately hot and moist, hot moderately, because he is plac'd betweene *Saturne* immoderately cold, and *Mars* immoderately hot : also he is mo-

A Prognostication.

derately moist, because being full of light, hee draweth to himselfe certaine vapours, yet moderately, by reason of his great distance from the earth. This Planet rejoyceth chiefly in the North, and by his salutiferous gales conserveth from putrifaction.

Mars, being next to *Jupiter*, is imoderately hot and dry, by reason of his proximity to the Sun, and the hard compact thicknes of his substance, also he is dry, because those vapors which he attracts to himselfe from other starres, he soone dissipates and consumes.

Sol, being *Planetarum Rex*, is the Fountaine of light and heat, having his orb placed in the middle of the Seven, and is called the greater light of the ancients, *Oculus Mundi*; *Pater latitia*, &c.

Venus, next to *Sol*, according to the opinion of *Ptolomy*, is hot and moist, and that more then *Jupiter*, because she is nearer to the Sunne and having more share of light, but being nearer the earth then *Jupiter*, shee drawes more vapours, and so consequently is moister.

Mercury, next to *Venus*, of nature variable, changes his nature according to the quality of the Planet with whom he is joyned, either corporally,

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corporally, or radiationally, yet of many he is judged cold and dry.

Luna, next the earth, by reason of her nearnes thereunto, drawes to her selfe without any impediment many vapours, and moisteneth the ayre, yet by reason of the Sun-beames shee warmeth a little.

Notwithstanding in her first quarter, shee is judged cold and moist, in her second, hot and dry, in her third, hot and moist, in her last, cold and dry, and is called the lesser light.

The Characters of the Planets.

Saturne	} h	Mars	} ♂	Venus	} ♀
Jupiter	} ♃	Sol	} ☉	Mercury	} ☿
				Luna.	} ☾

Next of the nature of the Signes, as they agree with our times, according to the opinion of Cardanus and others.

THe latter part of *Pisces*, and the first part of *Taurus*, causeth windes.

The latter part of *Taurus*, and the signe *Gemini*, brings pleasant ayre and showers.

Yet

A Prognostication.

Yet according to the seventh Aphorisme of *Cardanus*, *Gemini* causeth windes.

Cancer and *Leo*, bring great heate, and many tymes haile.

Virgo causeth the heate to be more remisse, and causeth showers.

Libra and *Scorpio* bring an uncertaine state of ayre.

Sagitary, Snow and showers.

Capricorne, cold.

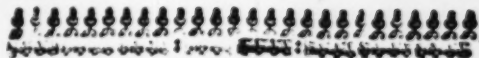
Aquarius with the beginning of *Pisces*, increaseth moysture.

The Characters of the twelue signes.

♈ ♉ ♊ ♋ ♌ ♍ ♎ ♏ ♐ ♑ ♒ ♓

Signum est Planeta rangquam corpus & omnia

Certaine



Certaine profitable Max-
imes, and Physicall observations
requisite for the health of
Mans body.

The foure naturall vertues may be the bet-
ter conserved, and corroborated, if you con-
sider theſe rules following, viz.

The vertues	{ } { } { } { }	Attractive.	{ } { } { } { }	Are beſt cor- roborated the Moone being in theſe ſignes following.
		Retentive.		
		Digeſtive.		
		Expulſive		

That is the

Attractive	{ } { } { } { }	{ } { } { } { }	γ ♄ and ♀
Digeſtive			II ♁ and the
Retentive			fiſt of ☾
Expulſive			♂ ♀ and ♄ ♁ ♀ and ♀

The fitteſt times for purgations are Spring
and Autumne, yet neceſſity requiring, other
times

Prognostication.

times may be made use of, but care is to be taken that dayes immoderately hot, or immoderately cold, be avoided in taking physick, because at such times physick is deprived of its right, quality and operation.

And because our bodies doe follow the motion of the Moone, therefore these things are to be considered.

The moone in ☿ in * or Δ aspect with	{	☿ not combust	purge	} Elea- guarics
			choler with	
* or Δ aspect with	{	☉	flegme with	
		♃	melancholy with	
The moone in ♀ in * or Δ aspect with	{	♀ not combust	purge	} Potions.
			choler with	
* or Δ aspect with	{	☉	flegme with	
		♃	melancholy with	
The moone in ☿ in * or Δ aspect with	{	☿	purge choler with	} Pills.
		☉	flegme with	
* or Δ aspect with	{	♃	melancholy with	

In taking Laxative medicines, beware lest the moone be found in ruminative signes, as ♃, ☿, and ♀ likewise see, whether he be ascending, or the moone joyned with a Planet retrograde, because these signes will cause the sicke to vomit on his Physicke ere it can worke with him.

Physick

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Physicke may not be given (without necessity require) the Moone being in aspect with the two malevolent Planets, especial y Saturne,
Quoniam frigidi proprium est constringere.

Purge the
Spleene, in the houre of Jupiter.
Liver, in the houre of Saturne.
Lungs, in the houre of Venus.
Gall, and Reines, in the houre of Mars
Lastly, the Moone in.

✓ Take gargarismes.
II and III, cordialls.
II, Sneece, and use suffumigations.
III, And III Clysters.

In Phlebotomy.

Let not blood before the fourteenth yeare, nor after threescore or seventy, unlesse great need require.

See that the moone bee not in *Leo*, because it is a signe altogether contrary to her owne nature.

Nor in *Gemini* because it bringeth diminution to the armes and hands.

Also according to the opinion of *Almansor*, that excellent Physitian, it is not safe to let blood

A Prognostication.

blood the Moone being in a signe governing that member.

Rules of Husbandry.

The moone decreasing in light, and neare conjunction with the Sunne, is a fit time to sow moist seed, or to plant young trees in moist ground.

But if thou wilt sow dry seed, or plant Trees in dry ground, that will more commodiously be done, the moone increasing and neare the full.

Saturne though otherwise malevolent, yet a planet to be considered in husbandry, because by his exceeding coldnes he preventeth the increase of *Wormes*, and preserveth the seed from putrification, but the aspect of *Mars* with the moone is at all times to be avoyded; because he is a great enemy to Husbandry, aspecting the moone, or ascending, or in the middle heaven, or in any other eminent place of the figure.

But see rather that he be weake, in a falling house, and under the earth.

Signes

Fit to sow	}	are	{	γ	S,	\mathbb{M}	∞ ,	and	Ψ .
Fit to plant	}	are	{	γ ,	and	∞ .			

See that *Saturne* be strong, direct in the first the eleventh, the fifth, or the second house.

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Daniell. 1652.

But it is to be noted, that 'tis bad to sow in the time of the Eclipses, because at such times the seed is either totally dead, or very little remains to satisfy the husbandmans expectation.

Dresse thy Gardens, and prune thy hedges, the moone being neare the full in ♌ or ♍.

Dresse thy Vines, the moone being neare the full, and shining in ♋, ♌, ♍, or ♎, so shall neither the Wormes, nor Birds annoy the tender grapes.

Take heed lest thou plant Trees, the moone decreasing.

Sheare sheep the moone increasing.

Begin nothing when the moone shall be joyned in body to a retrograde Planet, lest it suddenly come to nought.

Thus farre of the use and benefit of Astrology.

Astronomus corporum celestium magnitudinem, figuram, & motus contemplatur; ac eorum polos, terminos ac periodos inquirat.

Astrologus denique quibus in hac inferiora sydera vi quadam sibi insita agant Speculatur, unde practicè de eorum effectibus iudicat, & quales futuri sint, & quo tempore prasagit.

*A Short Table of the Square and cubick
Rootes with an Explanation of severall que-
stions thereupon depending, in Reference to
Military men, Saylers, Tradesmen, Sur-
veighers &c.*

Root	Square	Cube.
1	1	1
2	4	8
3	9	27
4	16	64
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2194
14	196	2744
15	225	3375
16	256	4096
17	289	4913
18	324	5832
19	361	6859
20	400	8000
21	441	9261
22	484	10648
23	529	12167
24	576	13824
25	625	15625
26	676	17576
27	729	19683

Root

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Root	Square	Cube.
28	784	21972
29	841	24389
30	900	27000
31	961	29791
32	1024	32768
33	1089	35937
34	1156	39304
35	1225	42875
36	1296	46656
37	1369	50653
38	1444	54872
39	1521	59419
40	1600	64000
41	1681	68921
42	1764	74088
43	1849	79507
44	1936	85184
45	2025	91125
46	2116	97336
47	2209	103823
48	2304	110592
49	2401	117649
50	2500	125000
51	2601	132651
52	2704	140608
53	2809	148877
54	2916	157464
55	3025	167375
56	3136	175616
57	3249	185193
58	3364	195112
59	3481	205379
60	3600	216000

Example

A Prognostication.

Example the first of the Square.

There are 2025 Souldiers to be ordered in a square battail, that is so many in ranke as in file, looke therefore the number 2025 in the second Column, and right against it in the first Column you shall find this number, to wit 45 which is the number of Souldiers to be placed in ranke, and so many in file.

Example the second.

2500 Souldiers are so to be ordered, that the number of men placed in file, may beare such proportion to the number of men placed in ranke, as 5 is to 12, in the question the proportion holds thus, as 5 to 12, so 2500 to another number, whose Square roote is the number of men to be placed in ranke : which is 77. Now if you divide 2500 by 77. the quotient will be 32, the number of men to be placed in file.

Example the third of Sayling.

Certaine Mariners falling into the hands of Pyrats, at the place *A* represented by the center of the Quadrant, where they were robbed of their Compasses, Charts, and Tables, then taking *AC* for the Meridian, and suppose they sayle betweene the South and the West from *A* in the Paralell of 45 degrees, 195 leagues and then by observation find themselves to be in the

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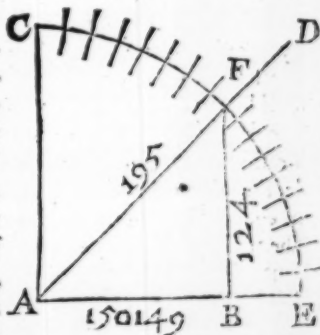
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Daniell. 1652.

Latitude of 38 degr. 36 minutes, the difference of Latitude BF , will be 6 degrees 24 minutes, which is 124 leagues, then to find the difference of Longitude, square the distance AF makes 38025; and the square of BF the difference of Latitude 15376; Then subtract the square of BF , from the square of AF , refts 22649, the square of AB , whose root extracted, gives 150, 49 leagues, the difference of Longitude.

Lastly, to find the Point of the Compass, divide the Quadrant CE , into 8. parts, and againe subdivide into 16, and into 32. and wee shall find the Rumbe to fall about 4 Points and $\frac{1}{2}$. from the Meridian, as may be seene in the ensuing Diagram.

A brief rule for all Measurers and others, deduced out of the fundamentall grounds of Geometry to take the height of any Towre, tree, or wall, only with a payre of Compasses, &c.



Thus, ———
Let

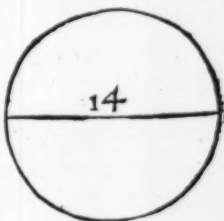
A Prognostication.

Let the line *BF*, represent the Towre or tree, and *A* let be the head or joynt of the Compasses which being set to the eye, goe so farre from your object, till the points of the Compasses, to wit, *E* meet with the bottome of the Towre or Tree *B*, and *F* the upper point of the Compasses with the top thereof, then standing still in the same place, keepe the lower point of your compasses against the same part of your object as before, and turne the upper point broad-wise, and a line drawne from the Tree or Towre perpendicular, to the supposed line drawne betweene your eye and the Tree, till it concurre with your new visuall line, will yeeld the true perpendicular height. Where observe, that that is to be taken for the bottome of the Towre or tree which is equall in hight to your eye, and in like manner you ought to set up some staffe or other thing of the same hight as your eye is of, for your last visuall line to concur with, otherwise you might erre in framing your Triangle; for the rule is no more, then to convert an Altitude into a Longitude, the other part of the Towre or tree from your eye to the ground may be easily found, &c.

The table of Square and Cube roots, is of excellent use for Surveighers and Measurers, for all Polygonall figures may easily bee reduced to Trapizies or Triangles, whose perpendiculars being

being gained, the content of their severall Areas will loone be gained by multiplying halfe the base of any right line triangle by the whole perpendicular thereof, or halfe the perpendicular, by the whole base, and the severall Roots of their severall produces being extracted, you may make Squares equall thereunto.

Another use of the Square root, is to find the side of a square equall to a Circle, as here, Let the Diameter of this circle be 14, whose square is 196, this multiplied by 11, makes 2156: which divided by 14, gives 154, the square root whereof is 12 $\frac{1}{4}$ Primes, the side of a Square equall unto a Circle.



Like Solids are in triplicate proportion; therefore the Cubick root serveth to find a proportion betweene like solids, whether Timber, Stone, or mettall.

Example.

If a shot or Bullet of 9. pound weight bee 4. inches the Diameter; what diameter a Bullet of 72 pound weight; First, cube 4. the diameter of the bullet given, makes 64, Then say by the rule of proportion, if 9 pound weight be 64, what 72 $\frac{1}{2}$

B 3

makes

Prognostication.

makes 512, whose Cube root extracted, gives 8. inches the diameter of a bullet, whose weight is 72 pound.

In Land measure.

Three Barley cornes make an Inch, 12 Inches make a foot, 3 Foot a yard, 16 foot and a halfe make a Pole or Perch, this perch in some places is 18 foot, in some 21 foot; of this 40 in length and 4 in bredth makes an Acre of land, which is 125 Paces to the furlong, every Pace 5 foot: the Foot is 4 Palmes, and every palme 4. fingers bredth, a fingers bredth is 4 Barley cornes close together.

A table for measuring of Ale or Beere.

Buz.	Barrell,	Kilder.	Ferkin,	Gallon,	Pottle,	Quart,	Pint.
1	2	4	8	84	168	336	672
	1	2	4	42	84	168	336
		1	2	21	42	84	168
			1	10.half,	21	42	84

A table for Wine measure.

Tunne,	Buz,	Hoghead,	Gallon,	Pottle,	Quart,	Pint.
1	2	3	63	2	2	2
	3	4	252	504	1008	2016
	1	2	126	252	504	1008
		1	63	126	252	504

Where note 2 Pints makes a Quart, 2 quarts a Pottle, 2 pottles a Gallon, &c., according to this Table.

Questions of Vsurie and Tables fitted to that purpose are so vulgarly treated of, that I judge it not fit here to insert any, yet if any desire compendiously and easily to resolve all such Questions, I shall referre him to learned Mr. Outreds *Clavis*, and Mr. Iomas Meares booke, two excellent Mathematicians of our time.

A Geographicall division of the World, into 4.
Parts, viz. *Europe Asia, Africa, and America.*
Europe, containeth in it these Provinces.

G*Ermany, Spaine, Swedeland, Hungaria, Italy,*
Denmarke, Moscovia, Sclavonia, France, Po-
lonia, Norway, Grecia. The eminent Islands are
these. *England Ireland Candia, Sardinia, Seer-*
land, Sicilia, Corsica, Negropont. The greatest
length of this part of the world is 5000 miles, the
breadth 900.

Asia the biggest of the 4, and the first known
quarter of the World, hath these principall Regi-
ons, and Islands. *Anatolia, Armenia, Assyria,*
Persia, China, Syria, Arabia, Mesopotamia, Par-
thia, India, Palestina Media, Chalde, Tartaria,

In *Africa* are these Provinces. *Egypt, Barbaria,*
Ethiopia, Nubia, Abasines, Alonomotopa, The
Islands. *Madagascar, S. Thomas, Insula de Cape*
Verde, Insula de Canaria, Insula de Madera.

America, the 4.th part of the world and of late
discovery, consisteth of these two parts, viz.

Mexicana, and Pervana.

The Provinces of *Mexicana* are. *Nova Hispania*
Terra Florida, Nova Albion California, No-
rimbega, Nova Francia, Esotillant. The chiefe
Islands of *Mexicana* are, *Greenland, Iseland, and*
Friedsland. The

A Prognostication.

The Provinces of *Pervana* are. *Brasilia*, *Tisnada*, *Caribana*, *Cartagena*, *Pern*, *Charas*, *Chila*, *Patagonas Chicha*. The chiefe Islands of *Pervana* are, *Hispaniola*. *Cuba* with many other in the *West India*. *Insula Margarite*, *Melanque*, *Insula Remores*. *Java Major*, *Java Minor*, *Salomonis Insula*, and all the other *Islands* in *East India*.

The world is also divided into 5. Zones, whereof 2. are *Frigid*, 2. *Temperate*. the other *Torrid*.

The 7. Climates according to the old account.

The names and number of the Cli- mates	Miles in length.	Breadth	Days length in the middle of the climate
1 <i>Dia Maroes</i>	20555	465	13 h. 00m.
2 <i>Dia Syenes</i>	19453	420	13 30
3 <i>Dia Alexandrias</i>	18398	370	14 00
4 <i>Dia Rhodes</i>	17299	350	14 30
5 <i>Dia Rhomes</i>	16215	370	15 00
6 <i>Dia Boristhenes</i>	15136	325	15 30
7 <i>Dia Ripheos.</i>	14436	195	16 00

If any desire to be instructed in the great and Mysterious art of *Algebra*, whereby all questions *Arithmetical* or *Geometrical* possible to bee resolved, are unfolded, this Author after a new and facile method never hitherto taught by any of this Nation, for reasonable consideration will undertake to instruct them, as also in other parts of the *Mathematicks*. Also hee Surveigheth Land for Gentlemen and others, in opposition to the grosse absurdities committed by many illiterate persons for want of knowledge in the *Honorable Sciences*. Vale.

FINIS.